

IN THE CLAIMS:

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~strikethrough~~. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered). Please AMEND claims 1, 3, 6-8, 12, 14, 16-19, 23 and 26 in accordance with the following:

1. (CURRENTLY AMENDED) An interactive data analysis support apparatus for supporting the analysis of data, said apparatus comprising:

random extraction means for automatically extracting a random sampling of data ~~automatically at random~~ from a database;

cross tabulation display means for displaying according to summing up conditions to set a range to be displayed a cross tabulation in which the random sampling of data extracted at ~~random~~ from the database by the random extraction means is cross summed up;

cell specifying means for specifying at least one cell among a number of cells constituting said cross tabulation; and

graph display means for displaying the random sampling of data extracted ~~at random~~ from the database as a graph within the range of the cell specified by said cell specifying means.

2. (PREVIOUSLY PRESENTED) An interactive data analysis support apparatus according to claim 1, wherein said graph display means comprises display limiting means for limiting the range of the data to be displayed .

3. (CURRENTLY AMENDED) An interactive data analysis support apparatus according to claim 2, wherein said graph display means comprises storage means for storing the range of the data to be displayed which is limited by said display limiting means as a summing up condition used by said cross tabulation display means, and said cross tabulation display means is capable of displaying cross tabulation in which the random sampling of data extracted ~~at random~~ from the database is cross-summed up according to the summing up condition stored by said storage means.

4. (PREVIOUSLY PRESENTED) An interactive data analysis support apparatus

4. (PREVIOUSLY PRESENTED) An interactive data analysis support apparatus according to claim 1, wherein said graph display means comprises rearranging means for automatically rearranging in a graph the data to be displayed according to predetermined conditions.

5. (PREVIOUSLY PRESENTED) An interactive data analysis support apparatus according to claim 4, wherein said graph display means comprises storage means for storing data to be displayed which is rearranged by said rearranging means as a summing up condition used by said cross tabulation display means, and said cross tabulation display means is capable of displaying cross tabulation in which the data extracted at random from the database is cross-summed up according to the summing up condition stored by said storage means.

6. (CURRENTLY AMENDED) An interactive data analysis support apparatus according to claim 1, wherein said graph display means comprises:
automatic analyzing means for finding a new display item by extracting a characteristic of the random sampling of data extracted ~~at random~~ from said database, and display item-adding means for adding the new display item found by said automatic analyzing means to the graph.

7. (CURRENTLY AMENDED) An interactive data analysis support apparatus according to claim 6, wherein
said graph display means comprises storage means for storing the new display item added by said display item-adding means as a summing up condition used by said cross tabulation display means, and said cross tabulation display means is capable of displaying cross tabulation in which the random sampling of data extracted ~~at random~~ from a database is cross-summed up according to the summing up condition stored by said storage means.

8. (CURRENTLY AMENDED) An interactive data analysis support apparatus according to claim 1, wherein the random sampling of data extracted ~~at random~~ from said database is an aggregate of records composed of a number of data items.

10. (ORIGINAL) An interactive data analysis support apparatus according to claim 8, wherein said graph display means has a structure such that a graph is displayed designating said data item as an axis.

11. (ORIGINAL) An interactive data analysis support apparatus according to claim 10, wherein said graph display means comprises the same number of axes as the data items constituting said records, and plots a point corresponding to a value of each data item with regard to each of said records, to thereby display a graph in which points plotted on adjacent axes are connected by a segment.

12. (CURRENTLY AMENDED) A medium on which is recorded an interactive data analysis support program for supporting the analysis of data wherein there is recorded at least a program for executing:

a random extraction operation extracting a random sampling of data automatically at ~~random~~ from a database;

a cross tabulation display operation displaying according to summing up conditions to set a range to be displayed a cross tabulation in which the random sampling of data extracted ~~at random~~ from the database by the random extraction operation is cross-summed up;

a cell specifying operation specifying at least one cell among a number of cells constituting said cross tabulation; and

a graph display operation displaying the random sampling of data extracted ~~at random~~ from the database as a graph within the range of the cell specified by said cell specifying operation.

13. (PREVIOUSLY PRESENTED) A medium on which is recorded an interactive data analysis support program according to claim 12, wherein said graph display operation comprises a display limiting operation for limiting the range of the data to be displayed.

14. (CURRENTLY AMENDED) A medium on which is recorded an interactive data analysis support program according to claim 13, wherein said graph display operation comprises a storage operation for storing the range of the data to be displayed which is limited by said display limiting operation as a summing up condition used by said cross tabulation display operation; and

said cross tabulation display operation is capable of displaying cross tabulation in which the random sampling of data extracted ~~at random~~ from a database is cross-summed up according to the summing up condition stored by said storage operation.

15. (PREVIOUSLY PRESENTED) A medium on which is recorded an interactive data analysis support program according to claim 12, wherein said graph display operation comprises a rearranging operation for automatically rearranging in a graph the data to be displayed according to predetermined conditions.

16. (CURRENTLY AMENDED) A medium on which is recorded an interactive data analysis support program according to claim 15, wherein said graph display operation comprises a storage operation storing data to be displayed which is rearranged by said rearranging operation as a summing up condition used by said cross tabulation display operation, and said cross tabulation display operation is capable of displaying cross tabulation in which the random sampling of data extracted ~~at-random~~ from a database is cross-summed up according to the summing up condition stored by said storage operation.

17. (CURRENTLY AMENDED) A medium on which is recorded an interactive data analysis support program according to claim 12, wherein said graph display operation comprises:

an automatic analyzing operation for finding a new display item by extracting a characteristic of the random sampling of data extracted ~~at-random~~ from said database, and a display item-adding function for adding the new display item found by said automatic analyzing operation to the graph.

18. (CURRENTLY AMENDED) A medium on which is recorded an interactive data analysis support program according to claim 17, wherein said graph display operation comprises a storage operation for storing the new display item added by said display item-adding operation as a summing up condition used by said cross tabulation display operation, and said cross tabulation display operation is capable of displaying cross tabulation in which the random sampling of data extracted ~~at-random~~ from a database is cross-summed up according to the summing up condition stored by said storage operation.

19. (CURRENTLY AMENDED) A medium on which is recorded an interactive data analysis support program according to claim 12, wherein the random sampling of data extracted ~~at-random~~ from said database is an aggregate of records composed of a number of data items.

21. (PREVIOUSLY PRESENTED) A medium on which is recorded an interactive data analysis support program according to claim 19, wherein said graph display operation has a structure such that a graph is displayed designating said data item as an axis.

22. (PREVIOUSLY PRESENTED) A medium on which is recorded an interactive data analysis support program according to claim 21, wherein said graph display operation comprises the same number of axes as the data items constituting said records, and plots a point corresponding to a value of each data item with regard to each of said records, to thereby display a graph in which points plotted on adjacent axes are connected by a segment.

23. (CURRENTLY AMENDED) An interactive data analysis support apparatus for supporting the analysis of data, said apparatus comprising:

a random extraction device automatically extracting a random sampling of data at ~~random~~ from a database;

a cross tabulation display device displaying according to summing up conditions to set a range to be displayed a cross tabulation in which the random sampling of data automatically extracted ~~at random~~ from the database is cross summed up;

a cell specifying device specifying at least one cell among a number of cells constituting said cross tabulation; and

a graph display device displaying the random sampling of data extracted ~~at random~~ from the database as a graph within the range of the cell specified by said cell specifying means.

24. (PREVIOUSLY PRESENTED) An interactive data analysis support apparatus according to claim 23, wherein said graph display device comprises display limiting device for limiting the range of the data to be displayed by an operation in a graph.

25. (ORIGINAL) An interactive data analysis support apparatus according to claim 23, wherein said graph display device comprises a rearranging device for automatically rearranging in a graph the data to be displayed according to predetermined conditions.

26. (CURRENTLY AMENDED) An interactive data analysis support apparatus according to claim 23, wherein said graph display means comprises:

an automatic analyzing device finding a new display item by extracting a characteristic of said the random sampling of data extracted ~~at random~~ from said database, and a display

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item-adding device adding the new display item found by said automatic analyzing device to the graph.